



COURSE UNIT (MODULE) DESCRIPTION

Course unit (module) title	Code
Public health / 2022-2023 m.m. Medicina	

Lecturer(s)	Department(s) where the course unit (module) is delivered
Coordinator: Assoc. prof. dr. Marija Jakubauskienė Other: prof. dr. Dainius Pūras, prof. dr. Jolanta Dadonienė, prof. dr. Liubovė Murauskienė, prof. dr. Rimantas Stukas, asist. dr. Jelena Stanislavovienė, asist. dr. Valerij Dobrovolskij, asist. dr. Aušra Beržanskytė, asist. dr. Vaida Taminskienė	Public Health Department, Institute of Health Sciences, Faculty of Medicine, Vilnius University

Study cycle	Type of the course unit (module)
Undergraduate studies (I and II stages)	Compulsory

Mode of delivery	Period when the course unit (module) is delivered	Language(s) of instruction
Lectures, seminars in auditorium and/or online	III semester	Lithuanian and English

Requirements for students	
Prerequisites: -	Additional requirements (if any): -

Course (module) volume in credits	Total student's workload	Contact hours	Self-study hours
5 ECTS	134	67	67

Purpose of the course unit (module): programme competences to be developed		
To introduce students to modern public health science theory and practice, principles and innovative methods in order to develop the health promotion and prevention competencies for improvement of population health by strengthening competencies in health determinants, health economics, health systems, independent critical and analytical thinking, team work and decision making as well as leadership skills in dealing with public health issues in clinical medicine practice.		
Learning outcomes of the course unit (module)	Teaching and learning methods	Assessment methods
Time management and ability to work individually as well as in groups for solving public health challenges in medicine.	Active inclusive learning methods, lectures, seminars, practical assignments, research methods	Examination, accounting for seminars and practical assignments
Intercultural collaboration, decision making in teams and individually, authentic and distributed leadership skills	Active inclusive learning methods, lectures, seminars, practical assignments, research methods	Examination, accounting for seminars and practical assignments
Knowledge and competencies in public health methods applied in clinical medicine	Active inclusive learning methods, lectures, seminars, practical assignments, research methods	Examination, accounting for seminars and practical assignments
Search for scientific articles in literature databases and analysis of public health research papers as well as search of public health indicator databases,	Search for scientific papers and health indicators in different databases, planning	Assignments during the seminars, preparation of public health project

analysis and interpretation of indicators, implementation of empirical public health projects.	organisation and implementation of empirical public health project, collection, analysis and interpretation of empirical data	
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Content: breakdown of the topics	Contact hours						Self-study work: time and assignments		
	Lectures	Tutorials	Seminars	Exercises	Laboratory work	Internship/work	Contact hours	Self-study hours	Assignments
1. Concept of public health, development, functions, methods and innovations of public health. Biopsychosocial concept of health. Social model of health determinants, social-ecological concept in public health. Risk and protective factors of population health. Personalized medicine for public health. Epigenetics and biological mechanisms of social determinants of health. Interaction between public health and clinical medicine.	2		6				8	8	Analysis of scientific and professional literature. Case studies, individual and group work assignments. Preparation of experiential Public Health Project (PHP).
2. Population health needs and assessment indicators in Lithuania and globally (morbidity, mortality, disability, global burden of diseases). Patterns and epidemiology of communicable and chronic non communicable diseases. Population health inequalities, causes, outcomes and ways of inequality reduction. Databases of health indicators.	2		6				8	10	Analysis of scientific and professional literature. Analysis and interpretation of population health indicators. Case studies, individual and group work assignments (population health reports).
3. Health promotion and prevention. Health literacy, levels and interventions. Theory of Salutogenesis. Health promotion methods and their outcomes. Behavioural medicine. Prevention of risk factors, levels of prevention, preventive paradox. Preventive health programmes. Population screening. Management of chronic diseases.	2		8				10	8	Analysis of scientific and professional literature. Case studies, individual and group work assignments. Preparation of experiential PHP.
4. Environmental health, main concepts. Environmental risk factors and attributed diseases. Environmental health inequalities. Urban health. Improvement of population health through environment. Occupational health and occupational medicine. Occupational diseases, epidemiology, mechanisms and prevention. Assessment of occupational risks, preventive health assessments.	2		6				8	7	Analysis of scientific and professional literature, legal documents. Case studies, individual and group work assignments. Preparation of experiential PHP. Interactive self-control test.
5. Behaviour and public health. Life style determinants: nutrition, physical activity, sexual	2		8				10	8	Analysis of scientific and professional

health, psychoactive substances (smoking, alcohol and drug use). Lifestyle related diseases, their epidemiology and prevention. Life style medicine.									literature. Case studies, individual and group work assignments. Preparation of experiential PHP.	
6. Public mental health and epidemiology. Public mental health risk and protective factors. Mental health of children. Violence – concept, typology, epidemiology and prevention ways in health care system. Prevention of suicides, role of physician. Phenomena of stigma, discrimination and social exclusion and their prevention. Human rights approach in mental health care.	2		8					10	8	Analysis of scientific and professional literature, legal documents. Case studies, individual and group work assignments. Preparation of experiential PHP.
7. Health economics, concept, methods, application in medicine. Behavioural economics.	2		3					5	8	Analysis of scientific and professional literature. Case studies, individual and group work assignments. Preparation of experiential PHP.
8. Health systems and health policy. Typology of health systems, financial sources, comparative analysis. Financial mechanisms. Health system performance indicators. Universal health coverage. Health equality and equity. Principles and priorities of health policy. Health care management in times of emergencies and crisis.	2		6					8	10	Analysis of scientific and professional literature, legal documents. Case studies, individual and group work assignments. Preparation of experiential PHP.
In total	16		51					67	67	

Assessment strategy	Weight, %	Deadline	Assessment criteria
Public Health Test I	20%	During the seminar	Public health test is a computer based multiple choice test taken in the middle of the semester from the 1 st part of academic material. Test composes 20% of the total cumulative Public Health exam's evaluation. Test is passed if the student gets 5 or higher mark. Test is evaluated in decimals and only final cumulative examination mark is rounded up. Students are eligible to take the Public health exam when all the composite parts of evaluation are passed with minimal mark of 5.
Public Health Test II	20%	During the seminar	Public health test is a computer based multiple choice test taken at the end of the semester from the 2 nd part of academic material. Test composes 20% of the total cumulative Public Health exam's evaluation. Test is passed if the student gets 5 or higher mark. Test is evaluated in decimals and only final cumulative examination mark is rounded up. Students are eligible to take the Public health exam when all the composite parts of evaluation are passed with minimal mark of 5.
Public Health Project	20%	Throughout semester	Through the semester students have to prepare a group work (2-3 students in a group) public health project according to the Guidelines placed at https://emokymai.vu.lt . Public health project is an analytical paper written on selected public health

			topic. Public health project is accounted when evaluation of the project is 5 and higher. All students in the group get the same evaluation for the group work.
Public Health Exam	40%	During Examination Session	Public health exam is taken in written form/computer based during the Examination Session. Exam is a multiple choice 50 questions test. Student is eligible to take the Exam if one is accounted for all the tests and submitted the public health project due to the deadline and was evaluated with 5 or higher marks. Public health exam is evaluated with decimals points of the mark and only the final cumulative mark is rounded up.

Author	Year of publication	Title	Issue of a periodical or volume of a publication	Publishing place and house or web link
Compulsary reading				
Joann G Elmore, Dorothea M.G. Wild, Heidi D. Nelson, David L. Katz	2020	Epidemiology, biostatistics, preventive medicine and public health		Elsevier Academic Press, JAV
R.Detels, J.McEwwn, R.Beaglehole, H.Tanaka.	2004	Oxford Textbook of Public Health		Oxford University Press, JAV
Sanjay Basu	2018	Modelling Public Health and Healthcare Systems		Oxford University Press, USA
T.H.Tulchinsky, E.A.Varavikova	2009	The New Public Health, second edition		Elsevier Academic Press, USA
A. Davidson	2015	Social determinants of health. A comparative approach		Oxford University Press, Canada
Vikram Patel, Harry Minas, Alex Cohen Martin J. Prince	2014	Global Mental Health: Principles and Practice		Oxford University Press, USA
Optional reading				
W. Willett	2013	Nutritional epidemiology.		Oxford University Press, USA
P. Boyle, N. Gray and et al.	2010	Tobacco. science, policy, and public health“		Oxford University Press, USA
P. Boyle, P. Boffetta and etc.	2013	Alcohol: science, policy, and public health		Oxford University Press, USA
Barry S.Levy, David H. Wegman, Sherry L. Baron, Rosemary K. Sokas	2006	Occupational and Environmental Health. Recognizing and Preventing Disease and Injury		Lippincott Williams&Wilkins, USA
William W. Eaton	2012	Public mental health		Oxford University Press, USA